



## Subject card

Subject name and code	Adaptive Filter Design, E:41045W0						
Field of study	Space and Satellite Technologies						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2023/2024		
Education level	second-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		English		
Semester of study	1		ECTS credits		2.0		
Learning profile			Assessment form		assessment		
Conducting unit	Katedra Inteligentnych Systemów Sterowania i Wspomagania Decyzji -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Tomasz Zubowicz				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		0.0		0.0	30
Subject objectives	To familiarize students with theoretically and practically with the adaptive filter design.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K7_U09	He uses appropriate methods and tools for adaptive filter design.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	[K7_K01] is aware of the constant necessity of improving and broadening their knowledge; can inspire and organise the teaching and learning process.	Student is aware of the need to supplement and expand the knowledge on filter design.			[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work		
	K7_W06	Student has the knowledge on concepts of adaptive filter design and implementation.			[SW1] Assessment of factual knowledge		
Subject contents	Basic concepts of adaptive filter design and implementation; Principles of adaptive filtering and signal processing.						
Prerequisites and co-requisites	-						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	project	50.0%			50.0%		
	exam	50.0%			50.0%		
Recommended reading	Basic literature	Students will receive a reading list at the beginning of the semester.					
	Supplementary literature	-					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	-						
Work placement	Not applicable						